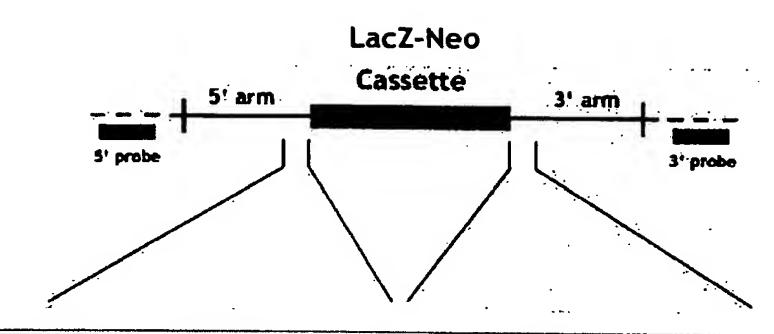
Figure 1

Targeting Vector* (genomic sequence)



Targeting Vector

- - - - Endogenous Locus

* Not drawn to scale

5'>TTGAGGGAGAACCTCTCACTG
GCCTGGGTGACCAGCGAGTACATG
AGTTCTAGGGACTGAACTTGGGTC
ATCACTCTTAGGTAGGAAGCACAT
TACTCCCTGAGCCAACTCTCCAGC
TCAACTTCTGTGTTTTTGCAGGTGG
TTTTCAGCAAGTACTGCAACTCCA
GTGACATCATGGACCTGTTCTGTA
TCGCCACCGGC<3'(SEQ ID NO:1)

5'>CAGACGACGCCATGGTCTCCA
TCGATCCCACCATGCCTGCGAATT
CAGAGCGGTAAGCGACTCCTCCTG
GGGTGTCTCACTTGTCTATGATGT
GTGCCAGGGAGTCTGCAATTTGGC
TTTGTTTACTACTGCTAAGACGTG
TGAAGTTTCAGCAGAAGAGGGAAG
GAGGCAGATGGGAGGCAGGCGGAG
GCTTGGTTCAC<3'(SEQ ID NO:2)

Figure 2

GCGGGCGCGATGGGGCCGGCTCCTCAAGCTACCGGCCCAAGGCCATCTACCTAGACATC GATGGACGCATCCAGAAGGTGGTTTTCAGCAAGTACTGCAACTCCAGTGACATCATGGAC CTGTTCTGTATCGCCACCGGCCTGCCTCGGAACACCACCATCTCCCTTTTAACCACAGAC GACGCCATGGTCTCCATCGATCCCACCATGCCTGCGAATTCAGAGCGCACTCCCTACAAG GTGAGACCTGTGGCTGTGAAGCAAGTGTCTGAACGAGAAGAACTTATCCAGGGCGTGCTG GCCCAGGTGGCGGAACAATTTTCCAGAGCGTTTAAGATCAACGAGCTGAAAGCCGAAGTT GCAAATCACCTGGCCGTGCTGGAGAAACGGGTGGAATTGGAAGGACTTAAAGTGGTGGAG ATCGAAAAATGCAAGAGTGACATTAAAAAGATGCGGGAGGAGTTGGCAGCTAGGAACAGC AGGACCAACTGTCCATGTAAATACAGTTTTTTTGGATAACAAGAAGTTGACACCTCGACGT GATGTCCCCACTTACCCCAAGTACCTGCTCTCCCCAGAGACCATCGAAGCCCTACGGAAG CCCACCTTTGATGTCTGGCTTTTGGGAACCCAACGAGATGCTGAGCTGTTTAGAACATATG TACCACGACCTTGGTCTGGTCAGGGACTTCAGCATCAACCCAATCACGCTCCGCAGGTGG CTGCTCTGTGTGCATGACAACTACAGGAACAACCCCTTCCACAACTTCCGGCACTGCTTC TGTGTGACACAGATGATGTACAGTATGGTCTGGCTCTGTGGCCTCCAGGAGAAGTTTTCC CAGATGGACATCTTGGTCCTGATGACTGCAGCCATCTGCCATGACCTGGACCACCCAGGG TACAACAATACATACCAGATCAATGCCCGCACGGAACTCGCTGTGCGCTACAACGACATC TCACCGCTGGAGAACCACCACTGCGCCATTGCCTTCCAGATCCTGGCAAGACCTGAGTGC TTGATCCTGGCTACCGACATGGCAAGGCATGCTGAAATTATGGATTCTTTCAAAGAAAAG ATGGAGAATTTTGACTACAGCAACGAGGAGCACCTGACCCTGCTGAAGATGATTCTCATA TGTTTACTGGAAGAATATTTTATGCAGAGTGACCGTGAGAAGTCCGAAGGCCTTCCTGTG GCCCCATTCATGGACCGAGACAAGTGACCAAAGCAACAGCCCAAATTGGGTTCATCAAG TTTGTCCTGATCCCAATGTTTGAAACAGTGACCAAGCTCTTCCCCGTTGTTGAGGAGACC ATGCTGCGGCCGCTCTGGGAGTCCCGAGAACACTACGAGGAGCTGAAGCAGCTGGACGAT GCCATGAAGGAGTTGCAGAAGAAGACAGAGAGCTTAACATCTGGGGCCCCGGAAAACACC ACAGAGAAGAACAGAGACAAAAGACAGTGAAGGCCATTCTCCTCCAAACTGATGGACA TCTCAATGTGTGCACAGACTGTACCAGTTAGAGCAGATGAATTGTGGCCTGTGAGTGGAC AGAGCCAAGCGAGGCTTCCCAGGATCTTCCACACAAGGATGGTCACGCCCAGACAACCCT GATGACCTGCTACAGACCATGTTTTCTAAGAACCATTTTGTTCCCTGATATAAAAACAGG AAAAAAAA (SEQ ID NO: 3)

Figure 3

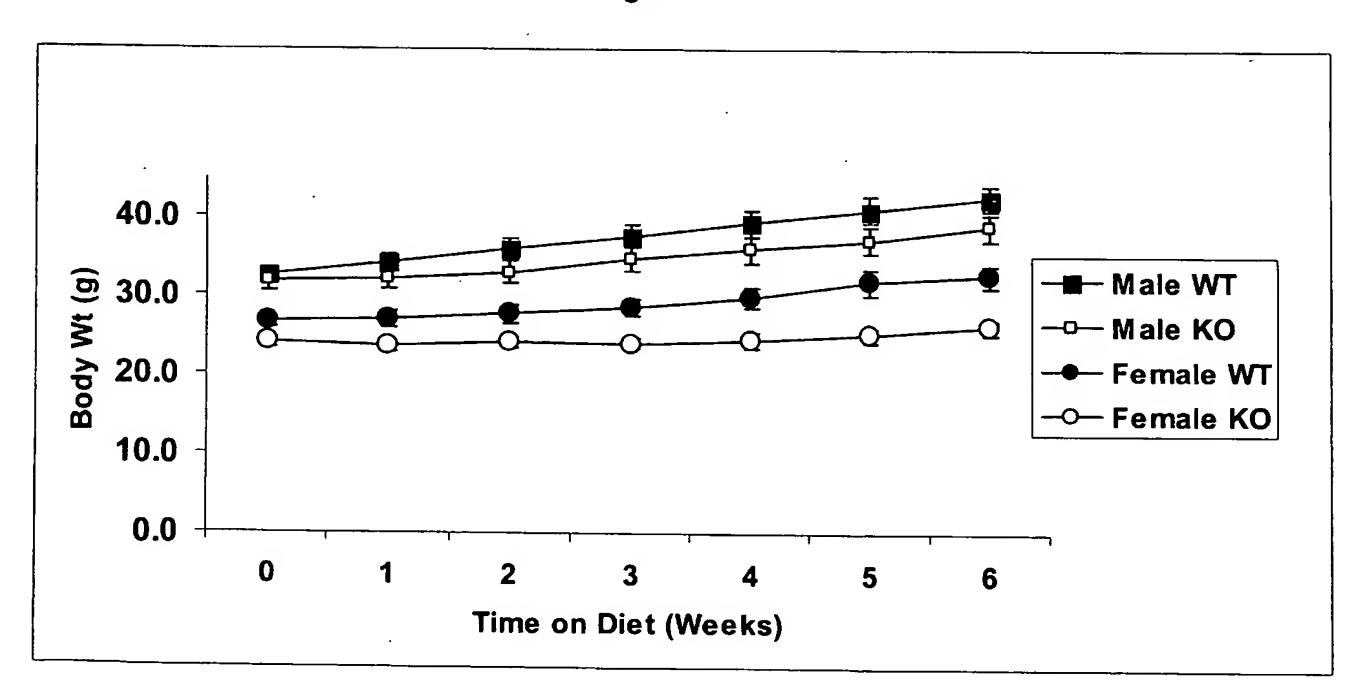


Figure 4

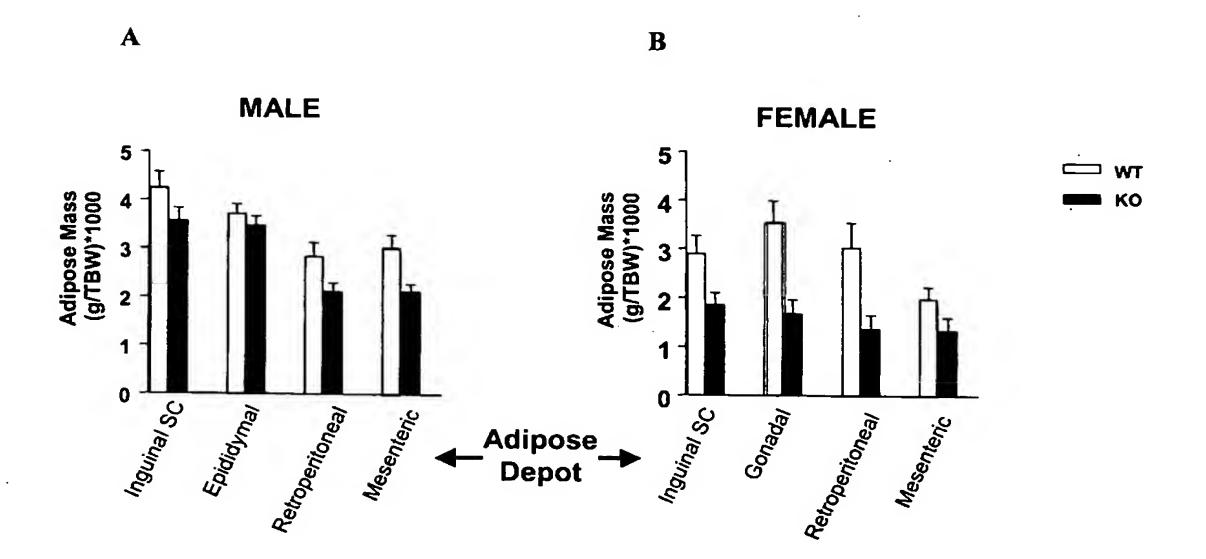


Figure 5

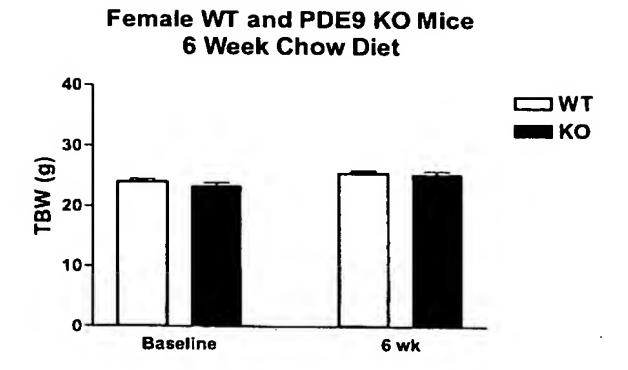
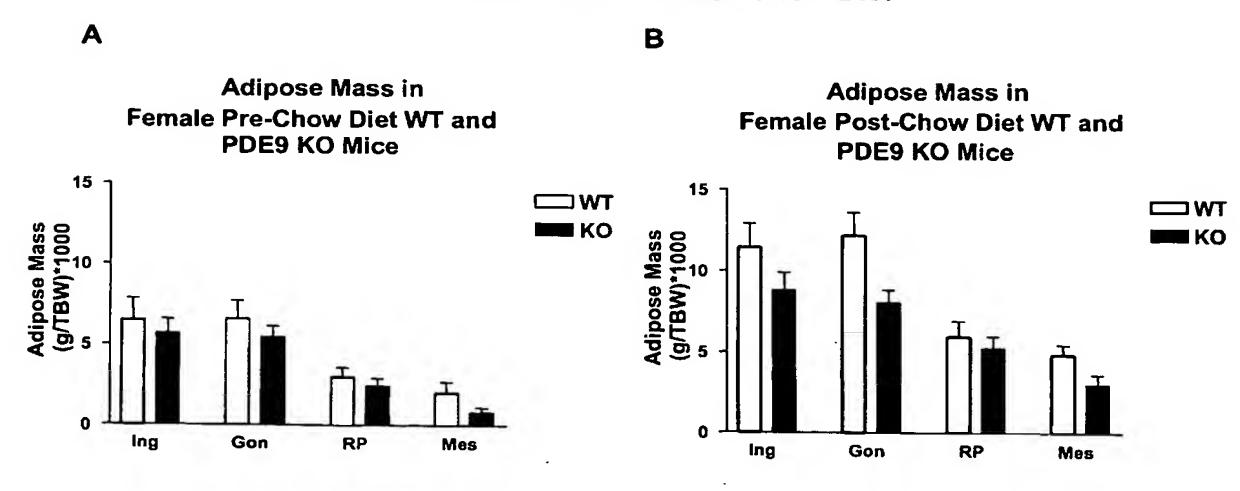


Figure 6

Effect of PDE9 KO on Female Adipose Depot Mass Prior to and After a 6 Week Chow Diet



(Ing: Inguinal Subcutaneous, Gon: Gonadal, RP: Retroperitoneal and Mes: Mesenteric)

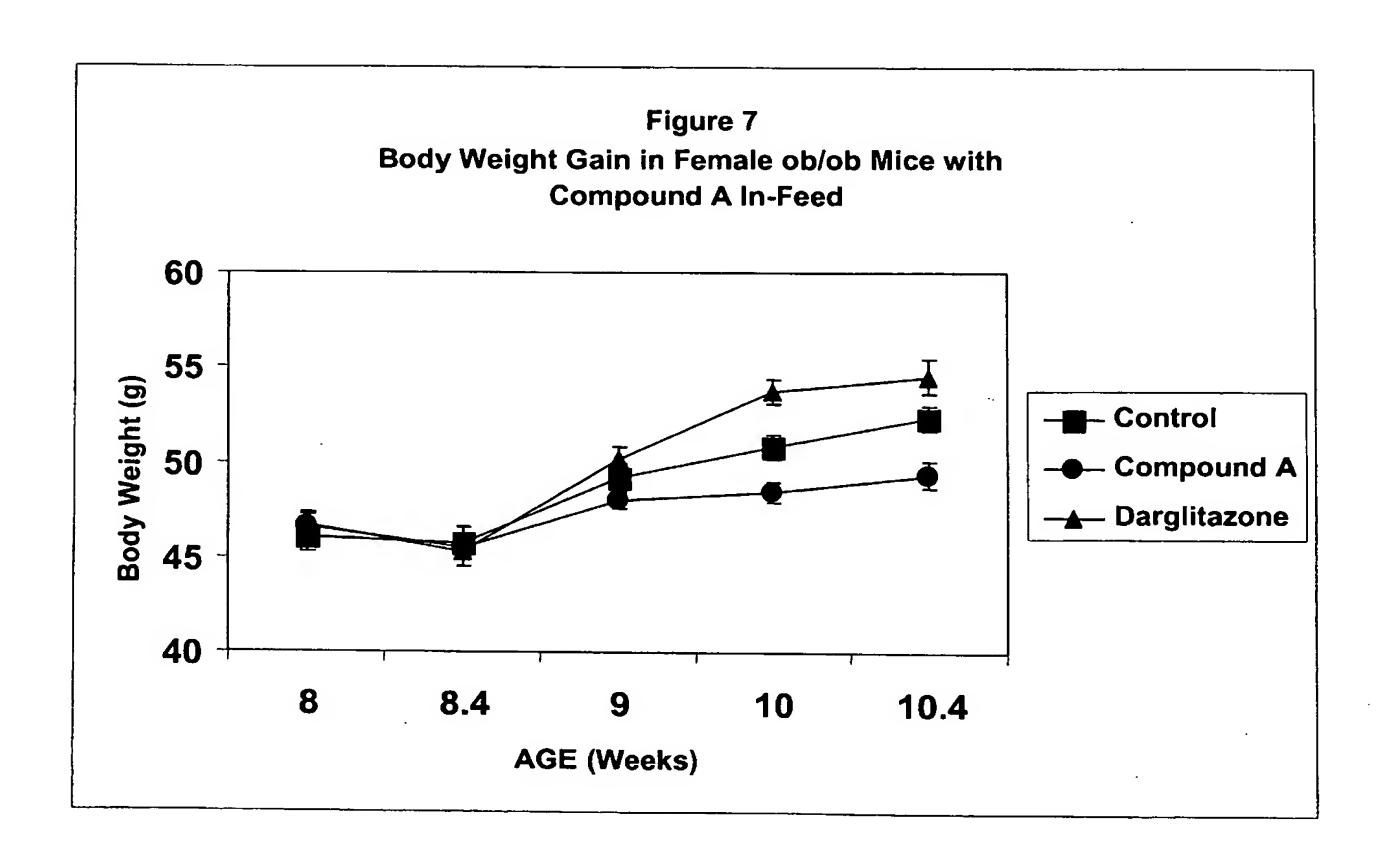
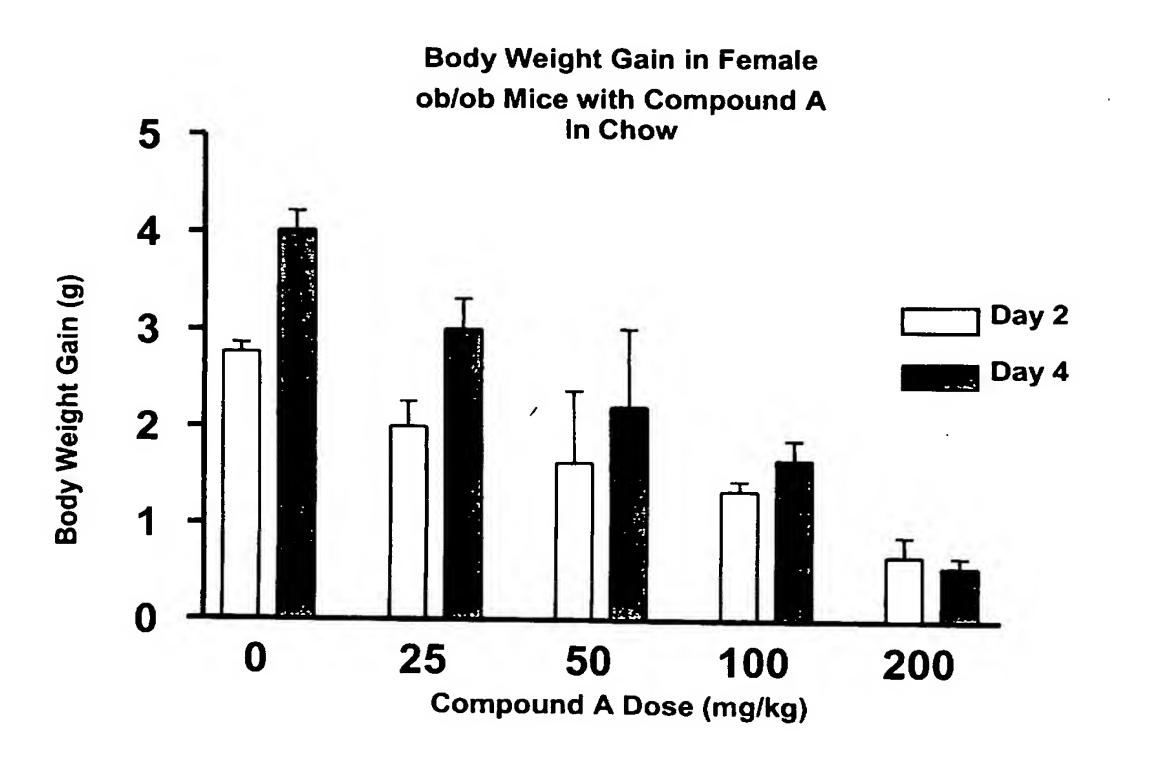


Figure 8A



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Figure 8B

Food Consumption in Female
ob/ob Mice with Drug In-Feed

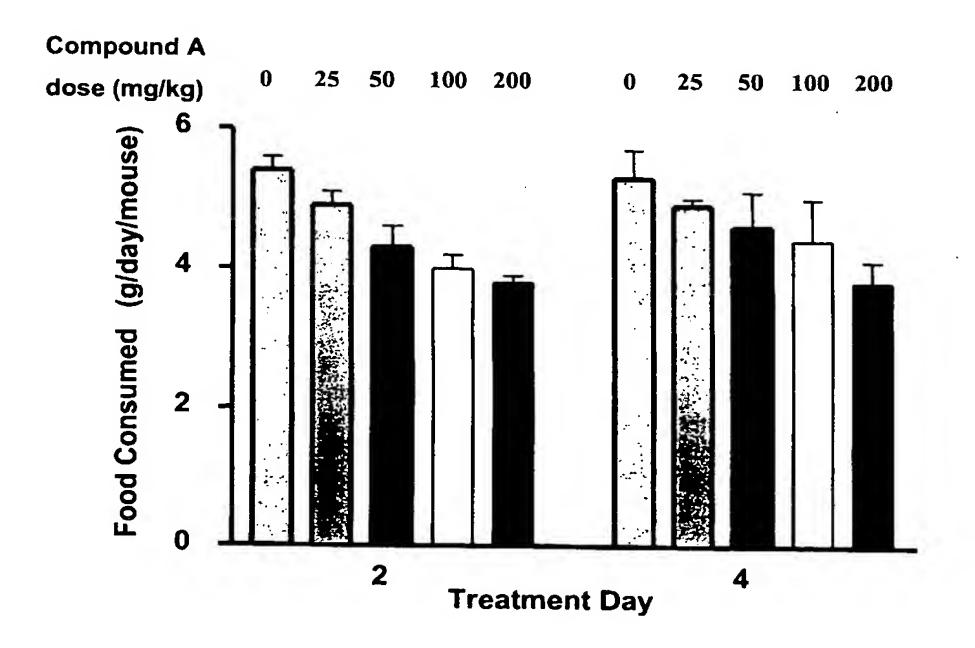


Figure 9

Food Consumption in Female ob/ob Mice with Drug In-Feed

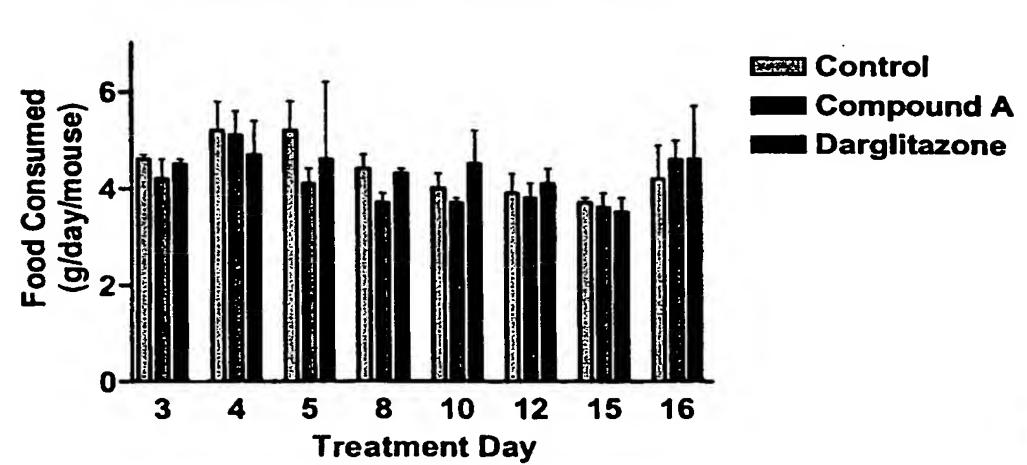


Figure 10

Plasma Glucose in Female ob/ob Mice with Drug In-Feed

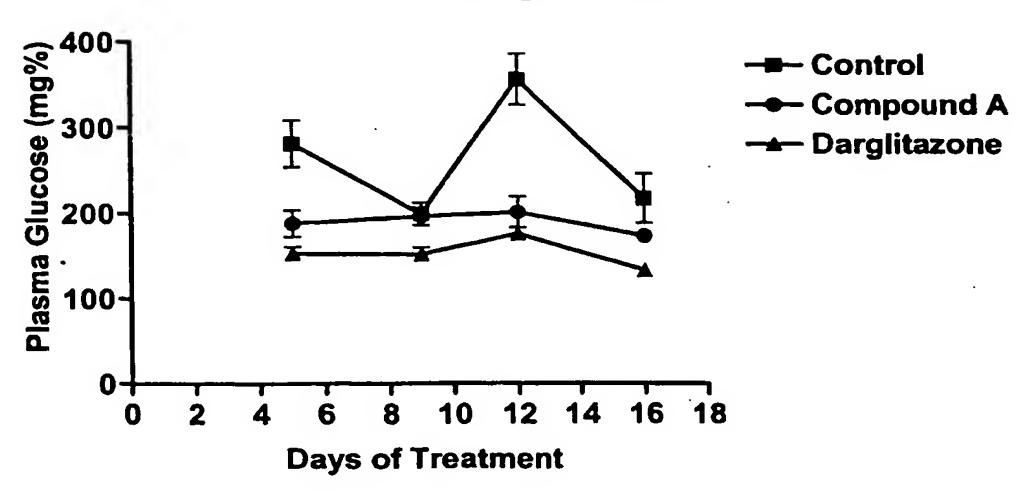


Figure 11



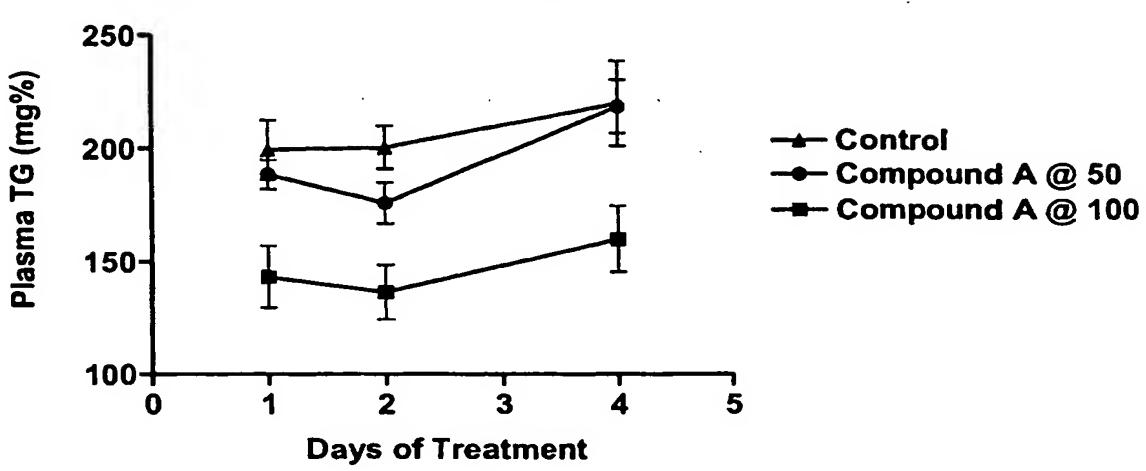


Figure 12



